

ATTORNEY DOCKET NO. 03234.0024U1  
SERIAL NO. 10/801,348

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of )  
 )  
**BROWN** ) Group Art Unit: 1755  
 )  
Application No.: 10/801,348 ) Examiner: Hailey, P.  
 )  
Filing Date: March 16, 2004 ) Confirmation No.: 2111  
 )  
FOR: "DEPOSITION OF DISPERSED METAL )  
PARTICLES ONTO SUBSTRATES USING )  
SUPERCritical FLUIDS" )

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

NEEDLE & ROSENBERG, P.C.  
Customer Number 23859

August 31, 2004

Sir:

Pursuant to the requirements of 37 C.F.R. § 1.56, submitted herewith on the accompanying Form PTO 1449 is a listing of documents known to Applicant and/or his attorneys. A copy of each of these documents is enclosed.

This Information Disclosure Statement is believed to be filed in a timely manner pursuant to 37 C.F.R. § 1.97(b)(3), in that a first Office Action on the merits of the present patent application has not yet been mailed to Applicant.

In accordance with the provisions of M.P.E.P. § 2001.06(b) and 37 C.F.R. § 1.98(b)(3), Applicant would like to bring to the attention of the Examiner the existence of the co-pending patent application(s) identified below, which were filed in the United States Patent and Trademark Office:

	<u>Application No.</u>	<u>Date Filed</u>	<u>Inventors</u>	<u>Attorney Docket No.</u>
1.	10/229,933	08/18/2002	Srinivas	03234.0002U2
2.	10/445,273	05/23/2003	Srinivas <i>et al.</i>	03234.0016U2

ATTORNEY DOCKET NO. 03234.0024U1  
SERIAL NO. 10/801,348

	<u>Application No.</u>	<u>Date Filed</u>	<u>Inventors</u>	<u>Attorney Docket No.</u>
3.	10/445,090	05/23/2003	Srinivas	03234.0017U2
4.	10/786,651	02/25/2004	Srinivas	03234.0017U3
5.	10/445,074	05/23/2003	Srinivas	03243.0018U2
6.	10/786,652	02/25/2004	Srinivas	03234.0018U3
7.	10/654,234	09/02/2003	Srinivas	03234.0021U1

In accordance with the requirements of 37 C.F.R. § 1.98(a)(2)(iii), a copy of the above-referenced application specification(s), including the claims and drawings thereof, is enclosed.

Consideration of the cited documents and making the same of record in the prosecution of the above-referenced application are respectfully requested.

No fee is believed due; however, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,

NEEDLE & ROSENBERG, P.C.




Mitchell A. Katz

Registration No. 33,919

NEEDLE & ROSENBERG, P.C.  
Customer Number 23859  
(678) 420-9300 Phone  
(678) 420-9301 Fax

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence, including any items indicated as attached or included, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

  
Mitchell A. Katz

August 31, 2004  
Date



ATTORNEY DOCKET NO. 03234.0024U1  
APPLICATION NO. 10/801,348  
SHEET 1 OF 2

Form PTO-1449  
U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

# **LIST OF INFORMATION CITED BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known	
Application Number	10/801,348
Filing Date	March 16, 2004
First Named Inventor	BROWN
Group Art Unit	1755
Examiner Name	Hailey, P.

## **U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No.	Document No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	A1	US 6,592,938	07/15/2003	Pessey <i>et al.</i>			
	A2	US 6,541,278	04/01/2003	Morita <i>et al.</i>			
	A3	US 6,451,375	09/17/2002	Cotte <i>et al.</i>			
	A4	US 6,132,491	10/17/2000	Wai <i>et al.</i>			
	A5	US 5,939,334	08/17/1999	Nguyen <i>et al.</i>			
	A6	US 5,789,027	08/04/1998	Watkins <i>et al.</i>			
	A7	US 5,639,441	06/17/1997	Sievers <i>et al.</i>			
	A8	US 5,606,724	02/25/1997	Wai <i>et al.</i>			
	A9	US 5,356,538	10/18/1994	Wai <i>et al.</i>			
	A10	US 4,970,093	11/13/1990	Sievers <i>et al.</i>			
	A11	US 4,737,384	04/12/1988	Murthy <i>et al.</i>			
	A12	US 4,734,227	03/29/1988	Smith			
	A13	US 4,582,731	04/15/1986	Smith			
	A14	US 4,552,786	11/12/1985	Berneburg <i>et al.</i>			
	A15	US 4,241,112	12/23/1980	Kostandov <i>et al.</i>			

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Date	Name	Translation Yes/No

## **NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)
	A16	Blackburn <i>et al.</i> , "Reactive Deposition of Conformal Palladium Films from Supercritical Carbon Dioxide Solution," <i>Chemistry of Materials</i> , 12:2625-2631 (2000)
	A17	Blackburn <i>et al.</i> , "Deposition of Conformal Copper and Nickel Films from Supercritical Carbon Dioxide," <i>Science</i> , 294:141-145 (2001)
	A18	Cabanas <i>et al.</i> , "A Continuous and Clean One-Step Synthesis of Nano-Particulate Ce <sub>1-x</sub> Zr <sub>x</sub> O <sub>2</sub> Solid Solutions in Near-Critical Water," <i>Chemical Communications</i> , 11:901-902 (2000)
	A19	Cansell <i>et al.</i> , "Supercritical Fluid Processing: A New Route for Material Synthesis," <i>Journal of Materials Chemistry</i> , 9:67-75 (1999)
	A20	Johnston, "Safer Solutions for Chemists," <i>Nature</i> , 368:187-188 (1994)

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Cite No.	Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)
	A21	Kaupp, "Reactions in Supercritical Carbon Dioxide," <i>Angewandte Chemie</i> , 33:1452-1455 (1994)
	A22	Kordikowski <i>et al.</i> , "Resolution of Ephedrine in Supercritical CO <sub>2</sub> : A Novel Technique for the Separation of Chiral Drugs," <i>J. Pharm. Sci.</i> , 88:786-791 (1999)
	A23	Long <i>et al.</i> , "Chemical Fluid Deposition: A Hybrid Technique for Low-Temperature Metallization," <i>Advanced Materials</i> , 12:913-915 (2000)
	A24	Park <i>et al.</i> , "Formation of Nylon Particles and Fibers Using Precipitation with a Compressed Antisolvent," <i>Industrial &amp; Eng. Chem. Res.</i> , 41:1504-1510 (2002)
	A25	Shah <i>et al.</i> , "Steric Stabilization of Nanocrystals in Supercritical CO <sub>2</sub> Using Fluorinated Ligands," <i>J. Am. Chem. Soc.</i> , 122:4245-4246 (2000)
	A26	Watkins <i>et al.</i> , "Chemical Fluid Deposition: Reactive Deposition of Platinum Metal from Carbon Dioxide Solution," <i>Chemistry of Materials</i> , 11:213-215 (1999)
	A27	Watkins <i>et al.</i> , "Polymer/Metal Nanocomposites in Supercritical CO <sub>2</sub> ," <i>Chemistry of Materials</i> , 7:1991-1994 (1995)
	A28	Watkins <i>et al.</i> , "Polymerization of Styrene in Supercritical CO <sub>2</sub> -Swollen Poly(chlorotrifluoroethylene)," <i>Macromolecules</i> , 28:4067-4074 (1995)

Examiner Signature:		Date Considered	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

Form PTO 1449  
U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

# LIST OF INFORMATION CITED BY APPLICANT

(Use as many sheets as necessary)

## Complete if Known

Application Number	10/801,348
Filing Date	March 16, 2004
First Name Inventor	BROWN
Art Unit	1755
Examiner Name	Hailey, P.

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	B1	US 6,572,227 B2	06/03/2003	Yamashita <i>et al.</i>			
	B2	US 6,524,383 B2	02/25/2003	Komatsu <i>et al.</i>			
	B3	US 6,494,946 B1	12/17/2002	Belmont <i>et al.</i>			
	B4	US 6,478,987 B1	11/12/2002	Akita <i>et al.</i>			
	B5	US 6,117,581	09/12/2000	Shelef			
	B6	US 6,042,643	03/28/2000	Belmont <i>et al.</i>			
	B7	US 5,993,996	11/30/1999	Firsich			
	B8	US 5,976,233	11/02/1999	Osumi <i>et al.</i>			
	B9	US 5,932,144	08/03/1999	Shimizu <i>et al.</i>			
	B10	US 5,928,419	07/27/1999	Uemura <i>et al.</i>			
	B11	US 5,900,029	05/04/1999	Belmont <i>et al.</i>			
	B12	US 5,871,671	02/16/1999	Kinlen <i>et al.</i>			
	B13	US 5,595,689	01/21/1997	Kulkarni <i>et al.</i>			
	B14	US 5,548,060	08/20/1996	Allcock <i>et al.</i>			
	B15	US 5,498,372	03/12/1996	Hedges			
	B16	US 5,334,292	08/02/1994	Rajeshwar <i>et al.</i>			
	B17	US 5,290,483	03/01/1994	Kulkarni <i>et al.</i>			
	B18	US 5,250,163	10/05/1993	Epstein <i>et al.</i>			
	B19	US 5,156,651	10/20/1992	Girardeau <i>et al.</i>			
	B20	US 5,152,801	10/06/1992	Altermatt <i>et al.</i>			
	B21	US 5,093,439	03/03/1992	Epstein <i>et al.</i>			
	B22	US 4,237,323	12/02/1980	Aliev <i>et al.</i>			
	B23	US 3,870,841	03/11/1975	Makowski <i>et al.</i>			
	B24	US 3,853,933	12/10/1974	Siciliano			
	B25	US 3,528,840	09/15/1970	Aboytes			
	B26	US 3,519,452	07/07/1970	Rivin <i>et al.</i>			
	B27	US 3,442,679	05/06/1969	Rivin <i>et al.</i>			
	B28	US 3,279,935	10/18/1966	Daniell <i>et al.</i>			
	B29	US 2003/0095914 A1	05/22/2003	Belmont <i>et al.</i>			
	B30	US 2003/0079643 A1	05/01/2003	Tomioka <i>et al.</i>			
	B31	US 2002/0088375 A1	07/11/2002	Komatsu <i>et al.</i>			
	B32	US 2002/0020318 A1	02/21/2002	Galloway <i>et al.</i>			
	B33	US 2002/0006982 A1	01/17/2002	Kurabayashi			

FOREIGN PATENT DOCUMENTS					
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Date	Name	Translation Yes/No
	B34	EP 0 466 261 A1	01/15/1992	Agfa-Gevaert	
	B35	WO 03/100889 A1	12/04/2003	Columbian Chemicals Company	
	B36	WO 03/100884 A2	12/04/2003	Columbian Chemicals Company	
	B37	WO 03/100883 A2	12/04/2003	Columbian Chemicals Company	
	B38	WO 03/099946 A1	12/04/2003	Columbian Chemicals Company	
	B39	WO 01/015253 A1	03/01/2001	Medis El Ltd.	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)	
	B40	Chao <i>et al.</i> , "A Study of Polypyrrole Synthesized with Oxidative Transition Metal Ions," <i>Journal of Polymer Science, Part A: Polymer Chemistry</i> , 26:743-753 (1988)	
	B41	Internet website for Sigma-Aldrich for Product No. 530565, "Polyaniline (emeraldine salt) - composite with carbon black," <a href="http://www.sigmaaldrich.com">www.sigmaaldrich.com</a> (4/6/04)	
	B42	Internet website for Sigma-Aldrich for Product No. 530573, "Polypyrrole - composite with carbon black," <a href="http://www.sigmaaldrich.com">www.sigmaaldrich.com</a> (4/6/04)	
	B43	Lefebvre <i>et al.</i> , "Electronically Conducting Proton Exchange Polymers as Catalyst Supports for Proton Exchange Membrane Fuel Cells," <i>Journal of Electrochemical Society</i> , 146(6):2054-2058 (1999)	
	B44	Product Brochure entitled "Raven Blacks," published by Columbian Chemicals Company, Marietta, Georgia (10/99)	
	B45	Tsubokawa, "Functionalization of Carbon Black by Surface Grafting of Polymers," <i>Prog. Polym. Sci.</i> , 17:417-470 (1992)	
	B46	Wampler <i>et al.</i> , "Composites of Polypyrrole and Carbon Black: Part III. Chemical Synthesis and Characterization," <i>Journal of Materials Research</i> , 10(7):1811-1822 (1995)	
	B47	Wei <i>et al.</i> , "Synthesis of Highly Sulfonated Polyaniline," <i>Synthetic Metals</i> , 74:123-125 (1995)	
Examiner Signature:		Date Considered	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			